## ATTACHMENT SECTION C. 12., a.,b.,c.,d.

	Exist	Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis						
	incor	porating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations						
		ying storage requirements.						
	Prope	osed sludge storage facilities must also provide the following information:						
	a.	A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the						
		following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.						
		1) Water wells, abandoned or operating						
		2) Surface waters						
		3) Springs						
		4) Public water supply(s)						
		5) Sinkholes						
		6) Underground and/or surface mines						
		7) Mine pool (or other) surface water discharge points						
		8) Mining spoil piles and mine dumps						
		9) Quarry(s)						
		10) Sand and gravel pits						
		11) Gas and oil wells						
		12) Diversion ditch(s)						
		13) Agricultural drainage ditch(s)						
		14) Occupied dwellings, including industrial and commercial establishments						
		15) Landfills or dumps						
		16) Other unlined impoundments						
		17) Septic tanks and drainfields						
		18) Injection wells						
		19) Rock outcrops						
	b.	A topographic map of sufficient detail to clearly show the following information:						
		Maximum and minimum percent slopes						
		2) Depressions on the site that may collect water						
		3) Drainageways that may attribute to rainfall run-on to or runoff from this site						
		4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be						
		protected from flooding						
	C.	Data and specifications for the storage facility lining material.						
	d.	Plan and cross-sectional views of the storage facility.						
	e.	Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent						
	0.	water table.						
		water table.						
9.	Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge,							
	speci	fically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge, where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.						
10.	Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.							
11.	Gran	nd Water Manitaring						
11.	Ground Water Monitoring.  Are any ground water monitoring data available for this land application site?YesNo							
	If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well							
	locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.							
12.	Land Application Site Information.							
	(Com	(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a						
	3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a							
	freque	ncy greater than once in a 3 year period)  See Attachment Section C, 12., a., b., c., d.						
	_	Provide a general location map for each county which clearly indicates the location of all the land application sites.						
	a.	Provide a general location hap for each county which clearly indicates the location of an the land application sites.						
	b.	For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features						
		and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for						
		each field taking into account the proposed buffer zones.						

**VPDES PERMIT NUMBER: VA0062499** 

FACILITY NAME: SHCC/ESU
8. Storage Requirements.



### United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

Ecological Services 6669 Short Lane Gloucester, Virginia 23061



MAR 2 3 2012

Mr. Dallas L. Phillips Environmental Services Manager Virginia Department of Corrections 1001 Obici Industrial Boulevard, Suite F Suffolk, Virginia 23434

Re:

Southampton/Deerfield Correctional Center, Sewage Sludge Application, Southampton County, Virginia, Project # 2012-I-0438

Dear Mr. Phillips:

The U.S. Fish and Wildlife Service has reviewed the information you provided regarding the referenced project. The following comments are provided under provisions of the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended and the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d).

Based on the project description and location, it appears that no impacts to federally listed species or designated critical habitat will occur. The National Bald Eagle Management Guidelines dated May 2007 recommend a 660-foot buffer to prevent disturbance to nesting eagles. Your proposed action appears to be outside of the 660 foot radius around the nearest known eagle nest and the U.S. Fish and Wildlife Service believes that your proposed action is not likely to disturb bald eagles. We have no further comments at this time. Should project plans change or if additional information on the distribution of listed species or critical habitat becomes available, this determination may be reconsidered.

Species information and other information regarding project reviews within Virginia are available at http://www.fws.gov/northeast/virginiafield/endspecies/project\_reviews.html. If you have any questions, please contact Cindy Kane at (804) 693-6694, extension 117, or via email at cindy\_kane@fws.gov.

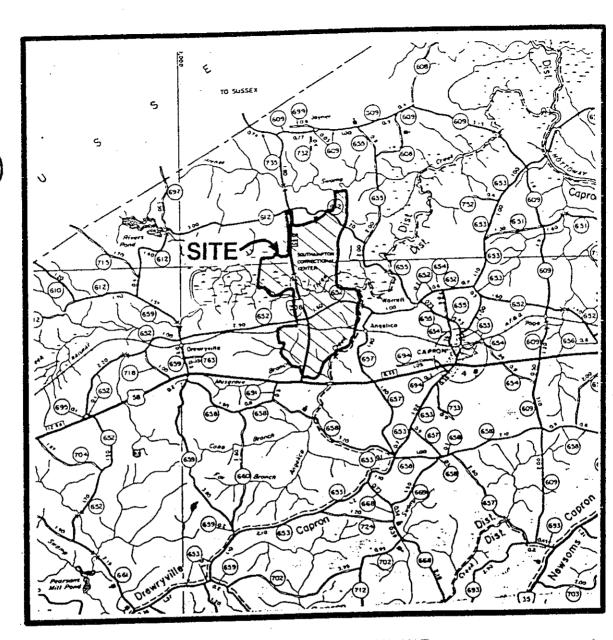
Sincerely, a dunk

Cindy Schulz

Supervisor

Virginia Field Office

cc: VDGIF, Richmond, VA (Attn: Amy Ewing) VDCR, Richmond, VA (Attn: Rene Hypes)



VDOT GENERAL HIGHWAY MAP SOUTHAMPTON COUNTY, VIRGINIA SCALE: 1" = 2 MILES

NOTE: ALL LOCATIONS ARE APPROXIMATE.

FIGURE 6
LOCATION MAP
DEPARTMENT OF CORRECTIONS
SOUTHAMPTON STATE FARM
BIOSOLID PERMIT APPLICATION



### ENVIRONMENTAL CONSULTANTS & DESIGNERS

P.O. BOX 5160 • 9560 KINGS CHARTER DRIVE • ASHLAND, VA 23005 (804) 550-9200 • FAX (804) 550-9259

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# DESIGNATED BIO – SOLID WASTE FIELDS

KEY	FIELD DESCRIPTION	CROP	ACREAGE	<u>P. H.</u>	RATE	PLANTED ACRES
1	IN FRONT OF DEERFIELD		8.0			
2 & 5	RIGHT ON GARDEN ROAD		20.0			
3	LEFT ON GARDEN ROAD		25.0			
51 P	, RED BARN		14.0			
7	17 A – FIELD RT. ON CAPRON HAY FIELD ROAD		17.0			
8	30 A – FIELD BESIDE RECEIVING UNIT		30.0			
9	FIELD BESIDE WORK RELEASE		9.0			
10	20 A – FIELD BESIDE DEERFIELD		20.0			
11 & 26	FIELD ACROSS ROAD 308 FROM FEEDMILL	-	120.0			
13	77A – FIELD AT WINDMILL		77.0			
15	58 A – FIELD AT WINDMILL		58.0			
16	TURKEY FIELD		18.0			
17	BEHIND 295		9.0			
18	27A – FIELD LEFT ON ROAD TO CAPRON		27.0			
20	NORTH OF AIRSTRIP		10.0			
21	GUM TREE FIELD		39.0			
22	HARRUP LINE FIELD		10.0			
23	5 A – FIELD ON 308		5.0	-		
28	BEHIND AIRSTRIP		12.0			
30	STRAW SHED FIELD		22.0			
			550 A			